

In the claims:

Please amend claims 1, 2, 4, 5, and 6 as follows:

1. (currently amended): An apparatus for cooling single and multiple high-flux and ultra-high-flux heat ~~dissipating~~ source devices, comprising
 - a liquid coolant module having a base plate and a cover plate defining therebetween a liquid coolant chamber with a liquid coolant inlet port and a liquid coolant outlet port in fluid communication with the liquid coolant chamber;
 - at least one heat dissipating device mounted to the ~~liquid coolant module~~ base plate;
 - a multi-level-cooling-enhancement stud mounted upon each heat dissipating device and disposed within the liquid coolant ~~module~~; and chamber having means for inducing phase change nucleate boiling of a subcooled liquid coolant within the liquid coolant ~~module~~ chamber to enhance ~~it's~~ the liquid coolant module's cooling performance.
2. (currently amended): The apparatus of claim 1, wherein ~~the multi-level cooling enhancement studs include~~ each multi-level-cooling-enhancement stud includes a centimeter-scale cylindrical core and millimeter-scale fins having micro-scale surface textures.
3. (original): The apparatus of claim 1 and further comprising means for reducing vapor buildup from the phase change nucleate boiling of a subcooled liquid coolant by condensing vapor bubbles from the phase change nucleate boiling before they coalesce into large vapor masses.
4. (currently amended): The apparatus of claim 1 wherein ~~the multilevel cooling enhancement studs are~~ each multi-level-cooling-enhancement-stud is disposed to be submerged within the liquid coolant flowing through the liquid coolant chamber from the liquid coolant inlet port to the liquid coolant outlet port.

5. (currently amended): The apparatus of claim 4 and further comprising means to induce jet-impriment cross-flow of the liquid coolant within the liquid coolant module against surfaces of each ~~of the~~ multi-level-cooling-enhancement ~~studs~~ stud in closest proximity to the liquid coolant inlet port to thereby clear away from these surfaces vapor generated from phase change nucleate boiling.

6. (currently amended): The apparatus of claim 5 wherein the means to induce the jet-impingement cross-flow of the subcooled liquid coolant includes micro-enhanced or mini-channel liquid coolant flow passages within the liquid coolant module to direct liquid coolant flow to ~~the~~ each multi-level-cooling-enhancement ~~studs~~ stud at a speed greater than the speed of the liquid coolant flowing through the liquid coolant inlet port.